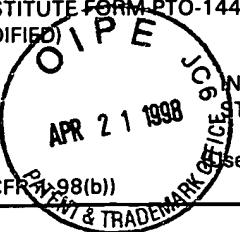


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| SUBSTITUTE FORM PTO-1449 (MODIFIED) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | | | | | ATTY. DOCKET NO. IBM/33B R0994-018 | SERIAL NO. 09/004,034 |
|  <small>(37 CFR 1.98(b))</small> | | <small>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</small> <small>Use several sheets if necessary</small> | | | | | | APPLICANT Brian John Cragun et al. | |
| | | | | | | | | FILING DATE January 7, 1998 | GROUP 26 276Y |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
|------------------|---------------|---|---|---|---|---|---|------------|----------|----------------|----------------|----------------------------|----------|
| <i>MW</i> | A.A | 4 | 6 | 3 | 0 | 1 | 0 | 8 | 12/16/86 | Gomersall | 358 | 84 | 03/26/84 |
| <i>MW</i> | A.B | 4 | 9 | 0 | 8 | 7 | 6 | 1 | 03/13/90 | Tai | 364 | 401 | 09/16/88 |
| <i>MW</i> | A.C | 4 | 9 | 1 | 0 | 6 | 7 | 2 | 03/20/90 | Off et al. | 364 | 405 | 12/04/87 |
| <i>MW</i> | A.D | 4 | 9 | 3 | 0 | 0 | 7 | 7 | 05/29/90 | Fan | 364 | 419 | 04/06/87 |
| <i>MW</i> | A.E | 5 | 0 | 5 | 7 | 9 | 1 | 5 | 10/15/91 | Von Kohorn | 358 | 84 | 10/25/90 |
| <i>MW</i> | A.F | 5 | 1 | 2 | 4 | 9 | 1 | 1 | 06/23/92 | Sack | 364 | 401 | 04/15/88 |
| <i>MW</i> | A.G | 5 | 3 | 5 | 3 | 2 | 1 | 8 | 10/04/94 | De Lapa et al. | 364 | 401 | 02/16/95 |
| <i>MW</i> | A.H | 5 | 3 | 5 | 3 | 2 | 1 | 9 | 10/04/94 | Mueller et al. | 364 | 405 | 06/10/93 |
| <i>MW</i> | A.I | 5 | 3 | 8 | 3 | 1 | 1 | 1 | 01/17/95 | Homma et al. | 364 | 401 | 10/09/90 |
| <i>MW</i> | A.J | 5 | 4 | 0 | 1 | 9 | 4 | 6 | 03/28/95 | Weinblatt | 235 | 381 | 07/22/91 |
| <i>MW</i> | A.K | 5 | 4 | 5 | 9 | 3 | 0 | 6 | 10/17/95 | Stein et al. | 235 | 383 | 06/15/94 |

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

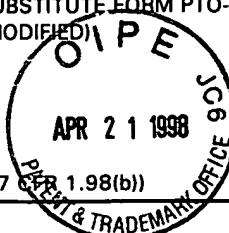
| | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
|--|-----|-----------------|------------------|--------------------------|-------|----------|-----------------------------|
| | A.L | | | | | | <i>RECEIVED APR 23 1998</i> |
| | A.M | | | | | | <i>RECEIVED APR 23 1998</i> |
| | A.N | | | | | | |
| | A.O | | | | | | |
| | A.P | | | | | | |
| | A.Q | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

| | | | |
|-----------|-----|---|-------------------------------------|
| <i>MW</i> | A.R | THE (NEW) TURING OMNIBUS, by A.K. Dewdney, W.H. Freeman and Company (1993), at pages 181-187 and 241-249. | <i>98 OCT 26 GROUP 2700 AM 7:21</i> |
| | A.S | | |
| | A.T | | |

| EXAMINER | DATE CONSIDERED |
|---------------------|-----------------|
| <i>R. WEINBLATT</i> | 9/30/99 |

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|  | | INFORMATION DISCLOSURE STATEMENT BY APPLICANT Use several sheets if necessary) | | APPLICANT Brian John Cragun et al. | |
| | | | | FILING DATE January 7, 1998 | GROUP 2441 2764 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | | | | | | | | ISSUE DATE | PATENTEE | | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|---------------|---|---|---|---|---|---|---|------------|---------------|---|-------|----------|----------------------------|
| <i>M</i> | B.A | 5 | 4 | 8 | 2 | 1 | 3 | 9 | 01/09/96 | Rivalto | . | 186 | 36 | 02/16/95 |
| <i>M</i> | B.B | 5 | 5 | 0 | 4 | 6 | 7 | 5 | 04/02/96 | Cragun et al. | . | 364 | 401 | 12/22/94 |
| <i>M</i> | B.C | 5 | 5 | 2 | 1 | 8 | 1 | 3 | 05/28/96 | Fox et al. | . | 364 | 401 | 01/15/93 |
| | B.D | | | | | | | | | | | | | |
| | B.E | | | | | | | | | | | | | |
| | B.F | | | | | | | | | | | | | |
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| | B.I | | | | | | | | | | | | | |
| | B.J | | | | | | | | | | | | | |
| | B.K | | | | | | | | | | | | | |

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

| | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION (YES/NO) |
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| | B.L | | | | | | |
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| EXAMINER | <i>R. Wen Hardt</i> | DATE CONSIDERED | <i>9/30/99</i> |
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